PRODUCT USER MANUAL

PRODUCT **COUCOU**

MODEL **EVENT DEVICE**

PRODIGY ELECTRONICS LIMITED

Flat F, 7/F World Tech Centre,
95, How Ming Street,
Kwun Tong, Kowloon,
HONG KONG.

Tel 852-23359916
Fax 852-23351558
Email info@prodigyelectronics.com
Web www.prodigyelectronics.com

DOCUMENT VERSION CONTROL			
Ver	**Date**	**Details**	**By**
1	**14/11/2013**	**Creation**	**PK**
2	**10/1/2014**	**Update Section 3 &**	
3	**24/4/2014**	**Update Section**	**AP**
4	**27/4/2014**	**Separate basic and Advanced**	**AP**
5	**1/4/2014**	**Section 2.5.2, New 2.6**	**PK**

Prodigy Electronics

INDEX

1. INTRODUCTION....4
2. Basic User Guide....5
   2.1. Device Initialization....5
   2.2. Smart Card / RFID Tag Reader....6
   2.3. NFC Peer2Peer Communication....6
   2.4. Blue Tooth Pairing....7
   2.5. Transaction Log Retrieval:....7
   2.6. APP for using with CouCou....8
3. ADVANCED USER GUIDE....9
4. APPENDIX....9

1. INTRODUCTION

This document details the Product usage of CouCou from Prodigy Electronics.

CouCou is a Near Field Communication (NFC) device, support RF smart card/tag reader with a zero power display.

Every transaction data can be stored internally in device Flash Memory and/or printed on the display and/or update via BT4.0 a connected iOS device. The records stored locally in device internal flash can be transferred later either via USB to a host PC system (or) through BT4.0 to a host iOS device.

The zero power bi-stable display allows the device to retain the displayed data/image even after power is removed. The device is powered by standard 3V CR2032 coin battery.

2. BASIC USER GUIDE

This basic User Guide provides information for using a **CouCou** device configured to work as an 'Event Display" device.

This Guide details
- Device Initialization
- Smart Card / RFID Tag Reader
- NFC Peer2Peer Mode
- Bluetooth Pairing
- Transaction Log Retrieval

2.1. DEVICE INITIALIZATION

Step 1 Slide out the battery holder
Step 2 Place two number of 3V CR2032 size battery in battery holder.
Step 3 Slide in the battery holder

- Device status
  - Enter initialization mode.
  - Basic system initialization
  - Green LED blink slowly
  - Refresh display to default "Event Display" Screen

CouCou – "Event Display" sector Description

Time and Status Bar - Fixed
Event Name
Blank - Fixed
Counter - Fixed
Company Name
Person Name
Device UID - Fixed
Designation

2.2. SMART CARD / RFID TAG READER

Step 1 Press Key – Maximum 2 sec
Step 2 Green LED starts slow blinking.
Step 3 Show Smart Card – protocols supported are
- MiFare
- FeliCa (issue by Octopus – Hong Kong transit card operator)

Step 4 .1 If the Smart card read success
- Green LED Display fast
- Mifare: Read Card type/UID/pre-set Block data
- FeliCa: Read Card UID/Balance value
- Screen - display with read data
- Store read data in internal memory log
- Transfer read data via BT4 to connected iOS device and read data using iOS APP - "AMBER LITE".

Step 4.2 If the card not detected (or) read failure
- Green LED switch OFF after pre-set time-out
- Screen – refresh to display default screen.
-

2.3. NFC PEER2PEER COMMUNICATION

Step 1 Bring two CouCou devices to close proximity.
Step 2 Press Key on both devices – Maximum 2 sec
Step 3 Green LED starts slow blinking.
Step 4.1 If the P2P Transaction success
- Green LED Display fast
- Device display Target NFC Device UID and Read data
- Transaction data is stored in internal memory log
- Transfer read data via BT4 to connected iOS device

Step 4.2 If the P2P Transaction failure
- Green LED switch OFF after preset time-out
- Default screen will be shown in LCD

Note: After entering P2P reader mode, user can extend P2P mode by pressing the key again and restart the NFC reader mode.

2.4. BLUE TOOTH PAIRING

Step 1 Long press key - Minimum 3 sec.
Step 2 Once the BT broadcast is started
- RED LED starts blink fast
- Device BT status **[iB]** displayed on top status bar of display
- Display message "Ready to BT Pairing".

Step 3 The device continue to be in BT broadcast mode.
Step 4 Launch iOS™ apps from Prodigy Electronics.
Scan the BT devices for pairing.
Select CouCou device to pair with iOS device
Step 5 If the connection success
- RED LED Display fast
- Device BT status **[iC]** displayed on top status bar of display

Step 6 To disconnect the BT device, use back button option in iOS App.
Step 7 On disconnection
- RED LED Display fast
- Device BT status **[iB]** displayed on top status bar of display

2.5. TRANSACTION LOG RETRIEVAL:

2.5.1. Retrieval by USB

Step 1 Connect Device USB to the USB port of your PC/MAC
Step 2 On connection success
- Device status **[USB]** displayed on top status bar of display
- Green LED ON

Step 3 In PC/MAC, CouCou listed as USB mass storage device.
Open the drive
Copy File "INFO.TXT" that contains the transaction log file.
Step 4 Disconnect CouCou device from PC/MAC
- Device screen refresh to Default.

IMPORTANT NOTE –On connection, if RED LED ON, check battery present in CouCou. CouCou device will connect on USB only if battery is present.

2.5.2. Retrieval by Bluetooth:

Step 1 Launch iOS™ apps "CouCou Link" from Prodigy Electronics.
Step 2 Follow section 2.4 - connect iOS device and CouCou via BT
Step 3 Use "CouCou Link" to initiate the log data retrieval procedure
Step 4 Transaction log will be transferred from device to iPod.

2.6. APP FOR USING WITH COUCOU

Prodigy has developed APP for iOS users to test the CouCou device.

- **AMBER LITE** – an App for iOS devices
  - Demo App to test and evaluate various Prodigy devices.
  - More details , refer our website
    www.prodigyelectronics.com/products/amber/
    http://www.prodigyelectronics.com/products/amber/amber-lite/
  - This APP is available for **FREE** from **Apple App Store**
    https://itunes.apple.com/hk/app/amber-lite/id555340619?mt=8&ign-mpt=uo%3D4
- **CouCou Link** - an App for iOS devices,
  - Full functional evaluation APP for the CouCou
  - Provided only for customers who have purchased the CouCou.
  - To receive this AP, customer required to follow the instructions here http://www.prodigyelectronics.com/ipos-customer-evaluation-step-1/

3. ADVANCED USER GUIDE

Provided for developers along with Software Development Kit (SDK)

The advance User Guide details how developer may customize the device for their specific applications.

4. APPENDIX

Included as part of Advanced User Guide